

CHARGE NUMBER: 4009  
PROGRAM TITLE: SMOKE MODIFICATION  
PERIOD COVERED: MAY, 1973  
PROJECT LEADER: W. A. GEISZLER  
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A. FILLER MODIFICATION

Analysis of cigarettes containing carbon-filled TFP added to MF filler shows that TPM, nicotine and puff count decrease with increasing carbon content. Carbon contents of 2 to 11% in filler were tested. The filtration efficiency of the cigarette rod does not change with increasing carbon content, contrary to the behavior of carbon paper in the filler where filtration efficiency increased with carbon paper content. The TPM and nicotine reductions with carbon TFP in the blend can be accounted for by the combined effect of puff count reduction and lower tobacco content of the cigarette. CO delivery does not change significantly with increasing carbon TFP, but HCN delivery appears to rise.<sup>1</sup>

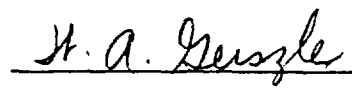
B. WRAPPER MODIFICATION

Sodium and potassium citrate have been compared as burn additives on cigarette paper and found to give no difference in analytical smoking characteristics at the 1% citrate level. A mixture of the citrates performs the same as each citrate alone.<sup>2</sup> Subjective comparison of the cigarettes is being conducted.

Product development of a cigarette containing CR-1214 to give an improved sidestream aroma has been initiated with a Test Market goal of January, 1974. Cigarettes with the additive on both blend and paper are being compared to determine the preferred method of incorporation. Subjective testing has been initiated to determine the threshold levels of CR-1214 for the smoker and for the observer in a smoke-filled room.

REFERENCES

- 1 - Notebook 6237, p. 67.
- 2 - Notebook 5493, pp. 98-99.

  
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